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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,550	09/26/2005	Yasumasa Nonoyama	Q89953	1896

23373 7590 04/28/2009
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EXAMINER

LOUIE, WAE LENNY

ART UNIT	PAPER NUMBER
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3661

MAIL DATE	DELIVERY MODE
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04/28/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/550,550	Applicant(s) NONOYAMA ET AL.	
	Examiner WAE LOUIE	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>9/26/2005, 10/08/2008</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Lahn (6,925,382).

Regarding applicant claims 21-22, 29-30, Lahn discloses an image apparatus of image processing method and displaying shot image of the ground surface taken with photographic equipment that is mounted on an airframe in the air (Lahn: column 4, lines 27-31) the method comprising: detecting (Lahn: column 6, lines 25-40), three dimensionally, photographic position of the video camera (Lahn: column 4, lines 53-60: "sensor pointing angle") in the air (Lahn: column 4, lines 27-32); computing a photographic range of the ground surface to be photographed based on the photographic position detected (Lahn: column 5, lines 30-40); transforming the video picture taken by the camera to conform to the photographic range (Lahn: column 5, lines 15-20); and displaying the video picture (Lahn: column 5, lines 25-31) so transformed, superimposed on a map of a geographic information system (Lahn: column 6, lines 10-20; column 5, lines 14-17: "mosaicing").

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Regarding claims 23, Lahn discloses wherein the plurality of video pictures area superimposed on a map are connected by overlapping parts of the video pictures (Lahn: column 5, lines 15-20), as in the claim.

Regarding claims 24, Lahn discloses wherein the successively taken video pictures are sampled in a predetermined cycle (Lahn: column 4, lines 20-25: "LOS slew device"), as in the claim.

Regarding claims 25-27, 33-34, Lahn discloses that the photographic range is computed based upon inclination and rotation angles of the video camera with respect to the ground surface (Lahn: column 4, lines 25-35: LOS sensor coupled with the aircraft pitch, yaw, and roll), as in the claims.

Regarding claim 28, Lahn discloses utilizing three-dimensional topographic data, including altitude information regarding the ups and downs of the ground (Lahn: column 4, lines 65-67; column 5, lines 1-5), as in the claim.

Regarding claim 31-32, Lahn discloses image display method wherein landmarks are extracted from a map of said geographic information system and said shot image respectively, and the corresponding landmarks are compared whereby a parameter for use in computing a photographic area of the ground surface having been shot is compensated and a shot image is displayed being superposed with high precision on a map of the geographic information system (column 3, lines 40-65, "identify potential objects of interest; (Lahn: column 4, lines 53-60: "predetermined area of interest")

Regarding claims 33-35, 39, Lahn discloses that the photographic range is computed based upon inclination and rotation angles of the video camera with respect

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to the ground surface (Lahn: column 4, lines 25-35: LOS sensor coupled with the aircraft pitch, yaw, and roll), as in the claims.

Regarding claims 36-37, Lahn discloses the image display method wherein an average value of parameter compensation values between 2 points of each landmark is used in the case of not less than 3 landmarks having been extracted and a photographic area of the ground surface having been shot is computed (col.5, lines 8-30, Fig. 3 "image processing architecture... eliminate unwanted clutter objects from consideration, and identify potential targets of interest for operator consideration.")

Regarding claims 38, Lahn discloses wherein the plurality of video pictures area superimposed on a map are connected by overlapping parts of the video pictures (Lahn: column 5, lines 15-20), as in the claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WAE LOUIE whose telephone number is (571)272-5195. The examiner can normally be reached on M-F 0700-1530.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wae Louie/
Examiner, Art Unit 3661

/Thomas G. Black/
Supervisory Patent Examiner, Art Unit 3661